U.S.S.N. 10/042,996
Filed: January 9, 2002
AMENDMENT &
RESPONSE TO OFFICE ACTION

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

 Original) A microchip device array for the controlled release or exposure of reservoir contents comprising:

two or more microchip device elements, each of which includes a plurality of reservoirs which contain molecules for controlled release or components for selective exposure; and

a means for flexibly connecting said device elements, so as to form a flexible array which can conform to a curved surface.

- (Original) The microchip device array of claim 1, wherein the means for flexibly connecting comprises a flexible supporting layer attached to a surface of the device elements.
- 3. (Original) The microchip device array of claim 2, wherein the flexible supporting layer comprises a polymer
- 4. (Original) The microchip device array of claim 3, wherein the polymer is selected from the group consisting of polyimides, polyesters, parylenes, and hydrogels.
- 5. (Currently Amended) The microchip device array of elaim ! claim 2, wherein the flexible supporting layer is porous or permeable to molecules releasable from the reservoirs or provided with one or more apertures through said flexible supporting layer.
- 6. (Original) The microchip device array of claim 1, wherein the means for flexibly connecting comprises one or more flinges or flexible tethers connecting two or more of the device elements.

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- 7. (Original) The microchip device array of claim 1 for implantation onto or into a patient, wherein the array can conform to the curvature of a tissue surface.
- 8. (Original) The microchip device array of claim? for implantation into or onto the eye of the patient, wherein the tissue surface comprises onhthalmic tissue.
- 9. (Original) The microchip device array of claim 7, wherein the tissue surface is selected from the group consisting of the stratum corneum, mucosal membranes, blood vessels, bone, brain, and bladder.
- 10. (Previously Presented) The microchip device array of claim 1, wherein the microchip device elements further comprise a plurality of discrete reservoir caps over the molecules in the reservoirs, wherein each reservoir cap controls release of the molecules from one of the reservoirs.
- 11. (Original) The microchip device array of claim 1 further comprising a means for wirelessly communicating with the microchip device elements.
- (Original) The microchip device array of claim 11, wherein the communicating means comprises a photocell to receive incident light energy.
- 13. (Original) The microchip device array of claim 1 further comprising an energy storage means.
- 14. (Original) The microchip device array of claim 13, wherein the energy storage means comprises a capacitor, a pattery, or both.
- 15. (Original) The microchip device array of claim 1 further comprising electrical connections between two or more of the microchip device elements, such that the microchip device elements can be powered or controlled by a common energy source or control source, respectively.

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- 16. (Original) The microchip device array of claim 1, wherein the reservoirs contain drug molecules.
- 17. (Original) The microchip device array of claim 1, wherein the reservoirs contains one or more secondary devices for exposure.
- 18. (Original) The microchip device array of claim 17, wherein the secondary device comprises a sensor.
- 19. (Original) The microchip device array of claim 18, wherein the sensor is a pressure sensor or a chemical sensor.
- 20. (Original) The microchip device array of claim 1, wherein the microchip device elements comprise reservoirs which contain drug molecules and at least one reservoir which contains a sensor.
- 21. (Original) The microchip device array of claim 1, wherein the reservoirs contain molecules selected from the group consisting of diagnostic reagents, catalysts, combinatorial chemistry precursors, and fragrance molecules.
- 22. (Original) The microchip device array of claim 1, wherein the electrical traces are built into the means for flexibly connecting said device elements.
- 23. (Original) The microchip device array of claim 1, which comprises flexible, passive release device elements.
- 24. (Original) The microchip device array of claim 7, which enhances the patency of a tissue lumen or other organ structure in the patient.

25-40. (Canceled).

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